

JOHN KENNETH BAKER FORD
B.Sc. Hons., Ph.D. (UBC)

Current Positions Program Head, Cetacean Research, Conservation Biology Section,
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PERSONAL DATA

Date and [REDACTED]
Place of Birth: [REDACTED]
Citizenship [REDACTED]
Education B.Sc. (Honours) Zoology (1972-76), University of British Columbia
Ph.D. Zoology (1977-85), University of British Columbia

EMPLOYMENT HISTORY

2001-present Research Scientist and Head, Cetacean Research Program, Pacific
Biological Station, Fisheries & Oceans Canada, Nanaimo, B.C.

1988-2001 Vancouver Aquarium Marine Science Centre:
 1989-96 - Marine Mammal Curator and Scientist
 1996-98 - Director of Conservation and Research
 1999-2001- Senior Marine Mammal Scientist

1987-88 NSERC Postdoctoral Fellow, ESL Environmental Sciences Ltd.,
Vancouver BC

1985-86 NSERC Postdoctoral Fellow, Pacific Biological Station, Fisheries &
Oceans Canada, Nanaimo, BC

1973-76 Marine Mammal Husbandry and Training, Vancouver Aquarium

RESEARCH AND CONSERVATION ACTIVITIES

- **Life history, social ecology, and acoustic behaviour of killer whales in British Columbia**
 - Field studies on foraging ecology of killer whale ecotypes in British Columbia, including potential prey limitation of the salmon-feeding resident population (1990-present).
 - Annual field census using individual photo-identification of whales in coastal BC and adjacent waters, in collaboration with G. Ellis (DFO), and K. Balcomb (Center for Whale Research). 1977-present
 - Ongoing acoustical monitoring of killer whale populations in the Northeast Pacific Ocean by means of analysis and interpretation of group-specific vocal dialects. 1977-present
 - Population genetic studies of killer whales in collaboration with G. Ellis and L. Barrett-

Lennard (University of British Columbia). 1994-2001

• **Population status, ecology, and behaviour of humpback whales: British Columbia, Hawaii, and Japan**

- Lead for Canada, multi-national SPLASH project (Structure of Populations, Levels of Abundance and Status of Humpbacks), a North Pacific-wide project to determine abundance and population structure of humpback whales. 2004-2007.
- Studies on population abundance and identity, site fidelity, and feeding habits of humpback whales in the Queen Charlotte Islands and north BC mainland coast. 1991-present
- Co-principal investigator in a study of the population status of humpback whales in the Bonin Islands, Japan, and its relationship to other North Pacific populations for World Wildlife Fund Canada and Japan. 1988
- Field assistant in study of population dynamics of humpback whales in Hawaii. Responsible for collecting identification photographs of individual whales, making acoustic recordings, and monitoring behavioural activities. New York Zoological Society. 1980-81

• **Status, distribution and abundance of cetaceans in British Columbia**

- Chief scientist on annual DFO ship surveys for cetaceans in British Columbia waters, 2002-2009
- Three-year field census program undertaken for Gwaii Haanas/South Moresby National Marine Park Reserve, Parks Canada; first such study in area. 1991-93; follow-up survey, 2004-2006.

• **Management of human impacts on cetaceans**

- Member, and Chair of Scientific Subcommittee, of the joint federal/provincial Johnstone Strait Killer Whale Committee, tasked with developing recommendations to government regarding disturbance effects of whale watching, logging, and fishing on killer whales off northern Vancouver Island. 1990-97
- Member, Board of Directors, Johnstone Strait Killer Whale Interpretive Centre Society. 1994-present
- Invited participant, First International Workshop on the Scientific Aspects of Whale Watching Management, Montecastello di Vibio, Italy. Apr 1995
- Invited Expert, Workshop on the Identity, Structure, and Vital Rates of Killer Whales Populations, International Whaling Commission Scientific Committee, Cambridge, England Jun 1981.

• **Impacts of underwater noise on marine mammals**

- Technical Specialist on impacts on marine mammals from acoustic deterrent devices, Salmon Aquaculture Review, B.C. Environmental Assessment Office. 1996-97.
- Invited Specialist, Acoustic Deterrents Workshop, U.S. Marine Mammal Commission, Seattle. Mar 1996.
- Co-investigator, effects of acoustic deterrent devices at salmon farms on harbour porpoise. 1994-95.
- Technical Assistant, Beaufort Sea Environmental Impact Statement, regarding biological effects and potential impacts of underwater noise on marine mammals. ESL Environmental Sciences Ltd. 1981-84
- Invited participant in 'The Question of Sound from Icebreaker Operations', a workshop on the effects of proposed Arctic LNG carriers on marine mammals. Petro Canada, Toronto. Feb 1981
- Designed and conducted field study of the potential effects of underwater industrial noise on belugas in the Beaufort Sea. F.F. Slaney & Co., environmental consultants. 1976-77.

- **Oil spill preparedness, response and recovery: marine mammals**

- Member, Advisory Committee, Robson Bight Salvage Recovery Team, 2008
- Technical Advisor, Queen of the North Sinking Response Team, 2006
- Technical reviewer and advisor for research and recovery programs involving killer whales and humpback whales in aftermath of *Exxon Valdez* oil spill, Alaska. U.S. Dept. of Justice, 1989-92; Exxon Valdez Oil Spill Trustee Council, 1993-2001
- Assisted in rescue and rehabilitation of sea otters during *Exxon Valdez* oil spill. Apr-May 1989
- Assisted in coordination and completion of field surveys to assess impacts of *Nestucca* oil spill on sea otters along west coast of Vancouver Island. Jan-Mar 1989
- Technical Specialist advising on marine mammal issues on the coast of B.C. and potential impacts from renewed hydrocarbon exploration. West Coast Offshore Exploration Environmental Review Panel. 1984-85

- **Underwater acoustic behaviour and stock identity of narwhals in the Canadian Arctic**

- Field investigation of potential role of underwater vocalization in population studies of narwhals, "Whales Beneath the Ice" program, World Wildlife Fund Canada. 1984-85.
- First comprehensive recording and analysis of vocal signals of narwhals. 1975-76

- **Abundance and distribution of cetaceans in the Canadian Arctic**

- Principal investigator in field study of distribution, abundance and age segregation of bowhead whales and other marine mammals, Beaufort Sea. 1986.
- Co-investigator, aerial surveys of the distribution of white whales as related to physical and chemical oceanographic factors, southern Beaufort Sea. 1977.
- Conducted systematic aerial surveys of marine mammals in Baffin Bay and Davis Strait. Aug-Oct 1976.

ACADEMIC RELATED ACTIVITIES

- Department of Zoology, Faculty of Science, University of B.C.: Research Associate, 1989-92; Adjunct Professor 1993-present
- Marine Mammal Research Unit, Fisheries Centre, Faculty of Graduate Studies, University of B.C.: Adjunct Professor, 1993-present
- Visiting Scientist, School of Earth and Ocean Sciences, University of Victoria, 2010 to present
- Honourary Reader, Department of Zoology, University of St. Andrews, Scotland, 2000-2003
- Guest Investigator, Woods Hole Oceanographic Institution, 1997-99
- Co-instructor, undergraduate level course on biology of marine mammals, Bamfield Marine Station. 1992-2002
- Co-instructor, UBC field course in earth and ocean sciences, Baja California, Jan-Mar 2000
- Supervisor of BSc Honours, MSc and PhD students at the University of B.C., including:
 - Barrett-Lennard, L.G. 1992. Echolocation in wild killer whales (*Orcinus orca*). MSc thesis.
 - Deecke, V. 1994. Using an artificial neural network to investigate dialect development in killer whales (*Orcinus orca*). BSc Honours thesis.
 - Heise, K. 1996. Life history parameters of the Pacific white-sided dolphins (*Lagenorhynchus obliquidens*) and its diet and occurrence in the coastal waters of British Columbia. MSc thesis.
 - Harms, E. 1997. Association patterns and pod cohesion of northern resident killer whales (*Orcinus orca*). MSc thesis.

- O, Miriam. 1998. Investigation of intraspecific scars and nicks within the northern resident killer whale (*Orcinus orca*) population of the northeast Pacific. BSc Honours thesis.
- Barrett-Lennard, L.G. 2000. Population structure and mating patterns of killer whales (*Orcinus orca*) as revealed by DNA analysis. PhD thesis.
- Keple, A. 2002. Seasonal abundance and distribution of marine mammals in the Strait of Georgia, British Columbia. MSc thesis.
- Yurk, H. 2005. Stability of vocal culture in killer whales (*Orcinus orca*). PhD thesis.
- Dalla Rosa, L. in progress. The relationship between oceanographic parameters and distribution of humpback whales. PhD thesis.
- Rambeau, A. 2008. Determining abundance and stock structure for a widespread migratory animal: the case of humpback whales (*Megaptera novaeangliae*) in British Columbia, Canada. MSc thesis, University of BC.
- Advisory Committee for the following students:
 - Recchia, C.A. 1994. Social behaviour of captive belugas, *Delphinapterus leucas*. Woods Hole Oceanographic Institution, Massachusetts Institute of Technology. PhD thesis.
 - Strager, H. 1994. Pod specific call repertoires and compound calls of killer whales, *Orcinus orca* L. 1758, in the waters of northern Norway. MSc thesis, University of Aarhus, Denmark.
 - Thomsen, F. 1995. An analysis of whistles and calls from the sound repertoire of killer whales (*Orcinus orca*) off the coast of Vancouver Island, British Columbia, Canada. Diploma thesis, University of Hamburg, Germany (co-supervisor)
 - Erbe, C. 1997. The masking of beluga whale (*Delphinapterus leucas*) vocalizations by icebreaker noise. Ph.D. thesis, University of British Columbia. 215 pp.
 - Similä, T. 1997. Behavioral ecology of killer whales in northern Norway. PhD thesis, University of Tromsø, Norway.
 - Thomsen, F. 1999. An investigation of the acoustic signals of killer whales (*Orcinus orca*) off Vancouver Island, British Columbia. PhD thesis, University of Hamburg, Germany (co-supervisor).
 - Williams, R.M. 1999. Behavioural responses of killer whales to whale-watching: opportunistic observations and experimental approaches. MSc thesis, University of British Columbia.
 - Hall, A.M. 2004. Seasonal abundance, distribution and prey species of harbour porpoise (*Phocoena phocoena*) in southern Vancouver Island waters. MSc thesis, University of British Columbia.
 - McCluskey, S. 2006. Space Use Patterns and Population Trends of Southern Resident Killer Whales (*Orcinus orca*) in Relation to Distribution and Abundance of Pacific Salmon (*Oncorhynchus* spp.) in the Inland Marine Waters of Washington State and British Columbia. MSc thesis, University of Washington.
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AWARDS and FELLOWSHIPS

Dean's Honours List, University of B.C., 1976
 Vancouver Natural History Society Award, 1976
 Kit Malkin Memorial Scholarship, 1977-80

Maclean Fraser Memorial Scholarship, 1978-82
University of B.C. Graduate Fellowship, 1979-82
Best Student Paper Award, Society for Marine Mammalogy Biennial Conf., Boston, MA, 1983
NSERC Postdoctoral Fellowship in Canadian Government Laboratories, 1985-86
NSERC Industrial Fellowship, 1986-88
Murray A. Newman Award for Significant Achievement in Aquatic Research, Vancouver Aquarium Marine Science Centre, 2009.

COMMITTEE MEMBERSHIPS

- Cetacean Specialist Group, International Union for the Conservation of Nature (IUCN), 2009-present
- Species Specialist Committee, Marine Mammals, Committee on the Status of Endangered Wildlife in Canada, 2005-present
- Marine Mammal Subcommittee, Canadian Council on Animal Care, 2003-present
- Killer Whale Recovery Team, 2004-present
- Sea Otter Recovery Team, 2002-present
- Chair, North Pacific Right Whale Recovery Team, 2002-2005

PUBLIC EDUCATION ACTIVITIES

- Frequent public lectures on whale biology and conservation. Host organizations and facilities include Smithsonian Institution, Washington; Field Museum of Natural History, Chicago; Cleveland Natural History Museum, Ohio; National Aquarium, Baltimore; Columbus Zoo, Ohio; Canadian Geographical Society, Vancouver, Victoria, Nanaimo, Ottawa; Vancouver Island University; Royal British Columbia Museum, Victoria; Alberta Provincial Museum, Edmonton; Vancouver Institute, Vancouver.
- Numerous popular magazine articles, including: National Geographic Magazine, Natural History (New York).
- Contributions to numerous television documentaries, including productions for National Geographic, Discovery Channel (Canada and US), Canadian Broadcasting Corporation, Australian Broadcasting Corporation, British Broadcasting Corporation, NHK Tokyo, TBS Tokyo.
- Co-developed public displays and exhibits on marine mammals, Vancouver Aquarium Marine Science Centre.

REPORTS AND PUBLICATIONS

Scientific Journals:

Norman, S.A., S. Raverty, E. Zabek, S. Etheridge, J.K.B. Ford, L.M.N. Hoang, and M. Morshed. 2011. Maternal–fetal transmission of *Cryptococcus gattii* in harbor porpoise. *Emerging Infectious Diseases* 17: 304-305.

Ford, J.K.B., G.M. Ellis, C.O. Matkin, M.H. Wetklo, L.G. Barrett-Lennard, and R.E. Withler. 2011. Shark predation and tooth wear in a population of northeastern Pacific killer whales. *Aquatic*

Biology 11:213-224.

- Barlow, J., Calambokidis, J., Falcone, E.A., Baker, C.S., Burdin, A.M., Clapham, P.J., Ford, J.K.B., Gabriele, C.M., LeDuc, R., Matilla, D.K., Quinn, T.J. II, Rojas-Bracho, L., Straley, J.M., Taylor, B.L., Urbán R., J., Wade, P., Weller, D., Witteveen, B.H., Yamaguchi, M. In press. Humpback whale abundance in the North Pacific estimated by photographic capture-recapture with bias correction from simulation studies. *Marine Mammal Science*.
- Ford, J.K.B., G.M. Ellis, P.F. Olesiuk, and K.C. Balcomb. 2010. Linking killer whale survival and prey abundance: food limitation in the oceans' apex predator? *Biology Letters*, 6:139-142. Published on-line before print September 15, 2009.
- Deecke, V.B., Barrett-Lennard, L.G., Spong, P., and Ford, J.K.B. 2010. The structure of stereotyped calls reflects kinship and social affiliation in resident killer whales (*Orcinus orca*). *Naturwissenschaften* 97:513-518.
- Himworth, C.G., M. Haulena, D. M. Lambourn, J.K. Gaydos, J. Huggins, J. Calambokidis, J.K.B. Ford, K. Zaremba, and S. Raverty. 2010. Pathology and epidemiology of phocid herpesvirus-1 infections in wild and rehabilitating harbor seals (*Phoca vitulina*) in the Northeastern Pacific. *J. Wildl. Dis.* 46:1046-1051.
- Calambokidis, J., Barlow, J., Ford, J.K.B., Chandler, T.E., and Douglas, A.B. 2009. Insights into the population structure of blue whales in the eastern North Pacific from recent sightings and photographic identification. *Marine Mammal Science* 25:816-832.
- Parsons, K.M., Balcomb, K.C. III, Ford, J.K.B., and Durban, J.W. 2009. The social dynamics of southern resident killer whales and conservation implications for this endangered population. *Animal Behaviour* 77:963-971
- Ward, E.J., Parsons, K., Holmes, E.E., Balcomb, K.C. III, and Ford, J.K.B. 2009. The role of menopause and reproductive senescence in a long-lived social mammal. *Frontiers in Zoology*, 6:4.
- Riesch, R., Ford, J.K.B., and Thomsen, F. 2008. Whistle sequences in wild killer whales (*Orcinus orca*). *J. Acoustical Soc. Amer.* 124:1822-1829.
- Ford, J.K.B., and Reeves, R.R. 2008. Fight or flight: antipredator strategies of baleen whales. *Mammal Review*, 38:50-86.
- Steiger, G. H., Calambokidis, J., Straley, J. M., Herman, L. M., Cerchio, S., Salden, D. R., Urbán R., J., Jacobsen, J. K., von Ziegesar, O., Balcomb, K. C., Gabriele, C. M., Dahlheim, M. E., Uchida, S., Ford, J. K. B., Ladrón de Guevara P., P., Yamaguchi, M., Barlow, J. 2008. Geographic variation in killer whale attacks on humpback whales in the North Pacific: implications for predation pressure. *Endangered Species Research*, 4: 247–256.
- Gregg, E.J., Nichol, L.M., Watson, J.C., Ford, J.K.B., and Ellis, G.M. 2008. Estimating carrying capacity for sea otters in British Columbia. *Journal of Wildlife Management*, 72:382-388.

- Hickie, B.E., Ross, P.S., Macdonald, R.W., and Ford, J.K.B. 2007. Killer whales (*Orcinus orca*) face protracted health risks associated with lifetime exposure to PCBs. *Environmental Science and Technology* 41: 6613-6619.
- Krahn M.M., Hanson, M.B., Baird, R.W., Boyer, R.H., Burrows, D.G., Emmons, C.K., Ford, J.K.B., Jones, L.L., Noren, D.P., Ross, P.S., Schorr, G.S., and Collier, T.K. 2007. Persistent organic pollutants and stable isotopes in biopsy samples (2004/2006) from Southern Resident killer whales. *Marine Pollution Bulletin*, 54:1903–1911.
- Guinet, C., Domenici, P., de Stephanis, R., Barrett-Lennard, L., Ford, J. K. B., and Verborgh, P. 2007. Killer whale predation on bluefin tuna: exploring the hypothesis of the endurance-exhaustion technique. *Marine Ecology Progress Series* 347:111-119.
- Pitman, R. L., Fearnbach, H., LeDuc, R., Gilpatrick, J. W. Jr., Ford, J. K. B., and Ballance, L. T. 2007. Killer whales prey on a blue whale calf on the Costa Rica Dome: genetics, morphometrics, vocalizations and composition of the group. *Journal of Cetacean Research and Management* 9:151-157.
- Trites, A.W., Deecke, V.B., Gregr, E.J., Ford, J.K.B., and Olesiuk, P.F. 2007. Killer whales, whaling and sequential megafaunal collapse in the North Pacific: a comparative analysis of the dynamics of marine mammals in Alaska and British Columbia following commercial whaling. *Marine Mammal Science* 23:751-765.
- Wade, P.R., Barrett-Lennard, L.G., Black, N.A., Burkanov, V.N., Burdin, A.M., Calambokidis, J., Cerchio, S., Dahlheim, M.E., Ford, J.K.B., Friday, N. A., Fritz, L.W., Jacobsen, J.K. Loughlin, T.R., Matkin, C.O. Matkin, D.R., McCluskey, S.M., Mehta, A.V., Mizroch, S.A. , Muto, M.M., Rice, D.W., Robe, P., and Clapham, P. 2007. Killer whales and marine mammal trends in the North Pacific – a re-examination of evidence for sequential megafauna collapse and the prey-switching hypothesis. *Marine Mammal Science* 23:766-802.
- Ford, J.K.B., and Ellis, G.M. 2006. Selective foraging by fish-eating killer whales *Orcinus orca* in British Columbia. *Marine Ecology Progress Series* 316:185-199.
- Reisch, R., Ford, J.K.B., and Thomsen, F. 2005. Stability and group-specificity of stereotyped whistles in resident killer whales, *Orcinus orca*, off British Columbia. *Animal Behaviour* 71:79-93.
- Ford, J.K.B. 2005. First records of long-beaked common dolphins, *Delphinus capensis*, in Canadian waters. *Canadian Field-Naturalist* 119:110-113.
- Ford, J.K.B., Ellis, G.M., Matkin, D.R., Balcomb, K.C., Briggs, D., and Morton, A.B. 2005. Killer whale attacks on minke whales: prey capture and antipredator tactics. *Marine Mammal Science* 21:603-618.
- Deecke, V.B., Ford, J.K.B., and Slater, P.J.B. 2005. The vocal behaviour of mammal-eating killer whales: communicating with costly calls. *Animal Behaviour* 69:395-405.
- Vagle, S., Ford, J.K.B., Erickson, N., Hall-Patch, N., and Kamitakahara, G. 2004. Acoustic recording systems for baleen whales and killer whales on the west coast of Canada. *Canadian Acoustics* 32:23-32.

- Au, W.W.L., Ford, J.K.B., Horne, J.K., and Newman Allman, K.A. 2004. Echolocation signals of free-ranging killer whales (*Orcinus orca*) and modeling of foraging for chinook salmon (*Oncorhynchus tshawytscha*). J. Acoust. Soc. Am. 115:901-909.
- Deecke, V.B., Slater, P.J.B., and Ford, J.K.B. 2002. Selective habituation shapes acoustic predator recognition in harbour seals. Nature, 420:171-173.
- Williams, R., Bain, D.E., Ford, J.K.B., and Trites, A.W. 2002. Behavioural responses of male killer whales to a 'leapfrogging' vessel. J. Cetacean Research and Management 4:305-310.
- Thomsen, F., Franck, D. and Ford, J.K.B. 2002. On the communicative significance of whistles in wild killer whales (*Orcinus orca*). Naturwissenschaften 89 (9): 404-407.
- Yurk, H., Barrett-Lennard, L., Ford, J.K.B., Matkin, C.O. 2002. Cultural transmission within maternal lineages: vocal clans in resident killer whales in southern Alaska. Animal Behaviour 63:1103-1119.
- Olesiuk, P.F., Nichol, L.M., Sowden, M.J. and Ford, J.K.B. 2002. Effect of the sound generated by an acoustic deterrent device on the relative abundance and distribution of harbour porpoise (*Phocoena phocoena*) in Retreat Passage, British Columbia. Marine Mammal Science 18:843-862.
- Barrett-Lennard, L.G., Deecke, V.B., Yurk, H., and Ford, J.K.B. 2001. A sound approach to the study of culture. Behavioural and Brain Sciences, 24:325-326.
- Thomsen, F., Frank D., and Ford, J.K.B. 2001. Characteristics of whistles from the acoustic repertoire of resident killer whales (*Orcinus orca*) off Vancouver Island, British Columbia. Journal of the Acoustical Society of America. 109:1240-1246.
- Deecke, V.B., Ford, J.K.B. and Spong, P. 2000. Dialect change in resident killer whales (*Orcinus orca*): implications for vocal learning and cultural transmission. Animal Behaviour, 60:629-638.
- Gregg, E.J., Nichol, L., Ford, J.K.B., Ellis, G., and Trites, A.W. 2000. Migration and population structure of northeastern Pacific whales off coastal British Columbia: an analysis of commercial whaling records from 1908-1967. Marine Mammal Science, 16:699-727.
- Deecke, V.B., Ford, J.K.B. and Spong, P. 1999. Quantifying complex patterns of bioacoustic variation: use of a neural network to compare killer whale (*Orcinus orca*) dialects. Journal of the Acoustical Society of America, 105(4): 2499-2507.
- Ford, J.K.B., Ellis, G.M., Barrett-Lennard, L., Morton, A., Palm, R., and Balcomb, K.C. 1998. Dietary specialization in two sympatric populations of killer whales (*Orcinus orca*) in coastal British Columbia and adjacent waters. Canadian Journal of Zoology, 76:1456-1471.
- Watson, J.C., Ellis, G.M., Smith, T.G. and Ford, J.K.B. 1997. Updated status of the sea otter, *Enhydra lutris*, in Canada. Canadian Field-Naturalist 111:277-286.
- Barrett-Lennard, L.G., Ford, J.K.B., and Heise, K.A. 1996. The mixed blessing of echolocation:

differences in sonar use by fish-eating and mammal-eating killer whales. *Animal Behaviour*, 51:553-565.

Thomsen, F., Ford, J.K.B., and Franck, D. 1996. Whistles as close range emotive signals in wild killer whales (*Orcinus orca*) off Vancouver Island, British Columbia, Canada. *Bioacoustics*, 6:309-310.

Kastelein, R.A., Ford, J., Berghout, E., Wiepkema, P.R., and van Boxsel, M. 1994. Food consumption, growth and reproduction of belugas (*Delphinapterus leucas*) in human care. *Aquatic Mammals* 20:81-97.

Ford, J.K.B. 1991. Vocal traditions among resident killer whales (*Orcinus orca*) in coastal waters of British Columbia. *Canadian Journal of Zoology*, 69:1454-1483.

Hoelzel, A.R., Ford, J.K.B., and Dover, G.A. 1991. A paternity test case for the killer whale (*Orcinus orca*) by DNA fingerprinting. *Marine Mammal Science*, 7(1):35-43.

Bigg, M.A., Olesiuk, P.F., Ellis, G.M., Ford, J.K.B. and Balcomb, K.C. III. 1990. Social organization and genealogy of resident killer whales (*Orcinus orca*) in the coastal waters of British Columbia and Washington State. Report of the International Whaling Commission (Special Issue 12):383-405.

Ford, J.K.B. 1989. Acoustic behaviour of resident killer whales (*Orcinus orca*) in British Columbia. *Canadian Journal of Zoology*, 67:727-745.

Moore, S.E., Francine, J.K., Bowles, A.E. and Ford, J.K.B.. 1988. Analysis of calls of killer whales, *Orcinus orca*, from Iceland and Norway. In: J. Sigurjonsson and S. Leatherwood (eds.), North Atlantic killer whales. *Journal of the Marine Research Institute (Reykjavik)* 11:225-250.

Ford, J.K.B., and Fisher, H.D. 1982. Killer whale (*Orcinus orca*) dialects as an indicator of stocks in British Columbia. Report of the International Whaling Commission, 32:671-679.

Ford, J.K.B., and Fisher, H.D. 1978. Underwater acoustic signals of the narwhal (*Monodon monoceros*). *Canadian Journal of Zoology*, 56:552-560.

Books, Book Chapters, and Theses

Ford, J.K.B., and Ellis, G.M. in press. Ecological specializations and their influence on the social organization and behaviour of killer whales. In: Yamagiwa, J., and L. Karczmarski (eds.), *Primates and Cetaceans: Field Studies and Conservation of Complex Mammalian Societies*. Springer, New York, NY.

Ford, J.K.B. 2009. Killer whale *Orcinus orca*. In: Perrin, W.F., Wursig, B., and J.G.M. Thewissen (eds.), *The Encyclopedia of Marine Mammals Second Edition*. Elsevier, New York, NY. P. 650-657.

Ford, J.K.B. 2009. Dialects. In: Perrin, W.F., Wursig, B., and J.G.M. Thewissen (eds.), *The Encyclopedia of Marine Mammals Second Edition*. Elsevier, New York, NY.

- Ford, J.K.B. 2005. Killer whale. In: World Book Encyclopedia, Chicago, Il. p. 316
- Ford, J.K.B. 2002. Killer Whale *Orcinus orca*. In: Perrin, W.F., Wursig, B., and J.G.M. Thewissen (eds.), The Encyclopedia of Marine Mammals. Academic Press, New York. pp. 669-676.
- Ford, J.K.B. 2002. Dialects. In: Perrin, W.F., Wursig, B., and J.G.M. Thewissen (eds.), The Encyclopedia of Marine Mammals. Academic Press, New York. pp. 322-323.
- Ford, J.K.B., Ellis, G.M. and Balcomb, K.C. 2000. Killer Whales: The Natural History and Genealogy of *Orcinus orca* in British Columbia and Washington. Second Edition. UBC Press, Vancouver, and U. of Washington Press, Seattle. 102 pp.
- Ford, J.K.B., and Ellis, G.M. 1999. Transients: Mammal-Hunting Killer Whales of British Columbia, Washington, and Southeastern Alaska. UBC Press, Vancouver, and U. of Washington Press, Seattle. 96 pp.
- Ford, J.K.B., Ellis, G.M. and Balcomb, K.C. 1994. Killer Whales: The Natural History and Genealogy of *Orcinus orca* in British Columbia and Washington State. UBC Press, Vancouver, and U. of Washington Press, Seattle. 102 pp.
- Bigg, M.A., Ellis, G.M., Ford, J.K.B., and Balcomb, K.C. 1987. Killer whales: a study of their identification, genealogy and natural history in British Columbia and Washington State. Phantom Press, Nanaimo, B.C. 79 p.
- Ford, J.K.B. 1984. Call traditions and dialects of killer whales (*Orcinus orca*) in British Columbia. Ph.D. dissertation, University of British Columbia. 435 p.
- Ford, J.K.B., and Fisher, H.D. 1983. Group-specific dialects of the killer whale (*Orcinus orca*) in British Columbia. In: R. Payne (ed.), Communication and behavior of whales. AAAS Selected Symp. 76, Westview Press, Boulder, Co. p. 129-161.
- Ford, J.K.B. 1976. Underwater acoustic signals of the narwhal, *Monodon monoceros*. B.Sc. Honours thesis, University of British Columbia. 45 p.

Reports

- J.K.B. Ford, R.M. Abernethy, A.V. Phillips, J. Calambokidis, G.M. Ellis and L.M. Nichol. 2010. Distribution and relative abundance of cetaceans in western Canadian waters from ship surveys, 2002-2008. Can. Tech. Rep. Fish. Aquat. Sci. 2913: v + 51 p.
- Ford, J.K.B., B. Koot, S. Vagle, N. Hall-Patch, and G. Kamitakahara. 2010. Passive acoustic monitoring of large whales in offshore waters of British Columbia. Can. Tech. Rep. Fish. Aquat. Sci. 2898: v + 30 p.
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